### INTERNATIONAL SEARCH REPORT

Interional Application No PCT/IB2004/050330

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H03F1/34 H03F1/14 H0
H03F3/60

H03F1/32

H03F1/08

H03F3/45

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

#### EPO-Internal

ategory °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.	
,	US 6 211 738 B1 (HECHT JAMES BURR) 3 April 2001 (2001-04-03) cited in the application column 4, line 44 - column 5, line 23; figure 3	1-19	
<b>'</b>	EP 1 202 446 A (MATSUSHITA ELECTRIC IND COLTD) 2 May 2002 (2002-05-02) column 4, line 11 - column 6, line 56; figures 1,2	1-19	
Ą	US 6 172 563 B1 (TRASK CHRISTOPHER) 9 January 2001 (2001-01-09) column 6, line 44 - column 7, line 42; figure 6	1–19	
	-/		
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Y Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  14 June 2004	Date of mailing of the international search report  24/06/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31–70) 340–3016	Authorized officer Fedi, G

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Interional Application No PCT/IB2004/050330

		PC1/182004/050330				
C.(Continu Category °	Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT legory Citation of document, with indication, where appropriate, of the relevant passages  Relevant to claim No.					
Α		1-19				
	US 2002/135427 A1 (YOKOTA YASUHIRO) 26 September 2002 (2002-09-26) page 2, left-hand column, lines 9-32; figures 12,13	,				

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